



**IDEM/EPA Requested
Polychlorinated Biphenyl
(PCB) Sampling of Bottom
Surfaces of Storage Materials**

Indianapolis Return Center
3333 N. Franklin Rd.
Indianapolis, IN

Prepared for:
Walmart

Prepared by:
ENVIRON International Corporation
Tampa, Florida

Date:
December 18, 2014



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Acronyms and Abbreviations

ALS:	ALS Environmental
cm:	Centimeter
COC:	Chain-of Custody
ENVIRON:	Environ International Corporation
GC:	Gas Chromatography
HASP:	Health and Safety Plan
IDEM:	Indiana Department of Environmental Management
ml:	Milliliter
$\mu\text{g}/\text{cm}^2$:	Micrograms per square centimeter
NELAP:	National Environmental Laboratory Accreditation Program
PCB:	Polychlorinated Biphenyl
TSCA:	Toxic Substances Control Act
USEPA:	United States Environmental Protection Agency

1 Introduction

ENVIRON International Corporation (ENVIRON) is pleased to provide this evaluation of Polychlorinated Biphenyl (PCB) analysis results from sampling of several materials requested by IDEM and USEPA during the course of a site survey at the Indianapolis Return Center (IRC) located at 3333 North Franklin Road in Indianapolis, Indiana. The IRC is a 275,000 square foot warehouse and distribution building on a 14.8-acre parcel.

On December 9, 2014, IDEM and USEPA conducted a survey of the facility. The agency team requested sampling of the bottom surfaces of items that had been in contact with the floor or placed on shipping pallets and resting on the conveyor system used to transfer items through the facility. ENVIRON collected the requested wipe samples from the bottom surfaces of items selected by the agency team.

As specified by the agency team, the objective of the sampling and analysis was to attempt to characterize potential PCB transfer from the floor or other horizontal surfaces to the bottom of items in contact with these surfaces. The goal of this evaluation was to determine whether conclusions and recommendations made on the basis of previous sampling conducted on the top surfaces of items, where particulate could be expected to settle, remained robust when results from the bottom surfaces of stored items, that might have been in contact with the building floor or fixed equipment were considered.

2 Requested Sampling Activities

During the course of their observations in the facility, IDEM and USEPA team members identified items for supplemental sampling of bottom surfaces. George Ritchotte of IDEM instructed ENVIRON as to which items the agencies requested be sampled and specified the type of sampling to be performed (i.e., wipe sampling).

The requested items for sampling included:

- One sample from a bottom deckboard of a shipping pallet resting on the concrete floor of the IRC
- Three samples from the bottom of large cardboard boxes used to contain items being processed at the IRC and resting on the top decks of shipping pallets
- Six samples from the bottom surfaces of cardboard boxes resting on rollers of the conveyor system used to transport items through the sorting modules

2.1 Sampling Strategy

ENVIRON collected samples of the materials requested pursuant to the specifications of the agency team. There are six separate conveyor lines (sorting modules) at the IRC where items are processed and sorted for subsequent re-shipment. One box resting on the conveyor rollers in each sorting module was tested. The pallet was resting on the floor in the southwest portion of the warehouse, where items are received for processing. The storage boxes were from the northwest portion of the warehouse, near a battery charging station evaluated in prior investigations.

Field activities were completed on December 9, 2014. Photos of the sampled items are included in Appendix A.

2.2 Sampling Methods

The specified pallet and boxes were turned over so that the formerly bottom surface could be wipe sampled. Wipe sampling was conducted using the standardized wipe methodology, which provides a quantitative estimate of surface dust and readily desorbed surface content by wiping a known surface area (100 square centimeters [cm^2]). The surface area wiped from each sample was a contiguous 100 cm^2 square.

ENVIRON personnel donned a new pair of nitrile gloves for each wipe sample. A new 10 cm x 10 cm paperboard template was used to define each wiped sample area and also to minimize the potential for cross-contamination. A laboratory-provided gauze pad was used to collect the surface sample. The gauze was removed from its packaging and wetted with approximately 1-2 milliliters (ml) of wetting agent, hexane. The pad was then used to wipe the defined area surface using an overlapping “S” pattern in a horizontal direction. The wipe was folded in half, used side in, and the defined area was wiped using an overlapping “S” pattern in a vertical

direction. The wipe was folded, used side in, and placed in a pre-cleaned 30-ml glass vial provided by the laboratory. Sample containers were labeled and packed on ice for shipment to the laboratory.

For quality control purposes, one blank sample was submitted for PCB analysis during ENVIRON's investigations on December 9, 2014. This sample was a field blank of unwetted gauze, exposed to the environment in the IRC.

Samples were submitted under chain-of-custody protocol to ALS Environmental (ALS) in Holland, Michigan and PCB analysis using EPA method 8082 by Gas Chromatography (GC) was completed with a requested detection limit of 0.1 µg/wipe. ALS is certified under the National Environmental Laboratory Accreditation Program (NELAP).

2.3 Investigation Derived Waste

Waste generated during sample collection was contained in a 55-gallon drum. The drum was labeled, sealed, and stored onsite in the southeast corner of the building pending receipt of analytical results to evaluate disposal options.

2.4 Health and Safety

All field activities were performed in accordance with a site-specific health and safety plan (HASP) developed for this Facility. The HASP was prepared in accordance with Chapter 29 Code of Federal Regulations (CFR) 1910.120 to ensure that field work implemented by the ENVIRON project team was in accordance with applicable health and safety protocols.

3 Sampling Results

Results from sampling the materials requested by the IDEM/USEPA survey team are provided in Table 1 and the corresponding laboratory analytical report is attached as Appendix B.

Samples were analyzed for PCBs as Aroclor mixtures. The only Aroclor profile match reported was for Aroclor 1260 and all results below were reported as concentrations of Aroclor 1260.

ENVIRON collected wipe samples from the bottom surfaces of a shipping pallet and nine cardboard boxes selected by the agency team. The following results were noted:

- PCBs were not detected on wipe samples from any of the boxes used to store items during processing or transported via the conveyor system, at a reporting limit of 0.1 $\mu\text{g}/100\text{ cm}^2$.
- PCBs were detected at 0.83 $\mu\text{g}/100\text{ cm}^2$ on the wipe sample from the wooden pallet lower deckboard.

Table 1: PCB Results for IDEM/USEPA Requested Bottom Surface Sampling

Sample No.	Description of Item	Aroclor 1260 $\mu\text{g}/100\text{ cm}^2$
120914-WP-01	Bottom of pallet, southwest area of warehouse	0.83
120914-WP-02	Open Processing Box, northwest area	ND (< 0. 1)
120914-WP-03	Open Processing Box, northwest area	ND (< 0. 1)
120914-WP-04	Open Processing Box for reuse	ND (< 0. 1)
120914-WP-05	Cardboard box on conveyor rollers, Module 6	ND (< 0. 1)
120914-WP-06	Cardboard box on conveyor rollers, Module 5	ND (< 0. 1)
120914-WP-07	Cardboard box on conveyor rollers, Module 4	ND (< 0. 1)
120914-WP-08	Cardboard box on conveyor rollers, Module 3	ND (< 0. 1)
120914-WP-09	Cardboard box on conveyor rollers, Module 2	ND (< 0. 1)
120914-WP-10	Cardboard box on conveyor rollers, Module 1	ND (< 0. 1)
120914-WP-11	Field blank	ND (< 0. 1)



4 Conclusions

PCBs were not detected on the bottom surfaces of boxes used to store items at the IRC during processing or transported via the conveyor system. No PCB-containing particulate matter was detected during wipe sampling of the requested boxes. PCBs were detected on one sample at a concentration of $0.83 \mu\text{g}/100 \text{ cm}^2$ on the bottom surface of a shipping pallet. These findings are consistent with previous results from sampling the upper surfaces of items at the IRC.

Appendix A
PHOTOLOG OF SAMPLE ITEMS

Photographs of Wipe Samples Collected from the Bottom Surfaces of Items Specified by IDEM/USEPA

The following photographs identify each of the sampled items at the IRC where a wipe sample was collected from the bottom surface of the specified items.

<p>Sample 120914-WP-01</p> <p>Aroclor 1260: 0.83 µg/wipe</p> <p>Bottom of pallet</p> <p>Located near the employee entrance to the warehouse in the south west portion of the warehouse</p> <p>Non Con Recall Area</p>	
<p>Sample 120914-WP-02</p> <p>Aroclor 1260: <0.10 µg/wipe</p> <p>Bottom of “processing box” – large boxes used to sort items returned</p> <p>Overstock Area</p>	

**Sample
120914-WP-03**

**Aroclor 1260:
<0.10 µg/wipe**

Bottom of “processing
box” – large boxes
used to sort items
returned

Overstock Area



**Samples
120914-WP-02 &
120914-WP-03**

**Aroclor 1260:
<0.10 µg/wipe**

“Processing boxes” –
large boxes used to
sort items returned

Overstock Area



**Sample
120914-WP-04**

Aroclor 1260:
<0.10 µg/wipe

Walmart Return
Center Box

Overstock Area
(eastern side of
conveyor)




Sample 120914-WP-05


Aroclor 1260:
<0.10 µg/wipe

Location: Upper
Module 6 – box
located on the rolling
conveyor system

Corrugated box



<p>Sample 120914-WP-06</p> <p>Aroclor 1260: <0.10 µg/wipe</p> <p>Location: Upper Module 5 – box located on the rolling conveyor system</p> <p>Corrugated box</p>	 A photograph of a white corrugated box on a rolling conveyor system. The box features a large red and black 'TORQUE' logo. A label on the front reads 'ST. II - 16.15'. A yellow label on top of the box contains the sample ID '12 0914-WP-06'. The box is situated in a warehouse environment with other boxes and shelving visible in the background.
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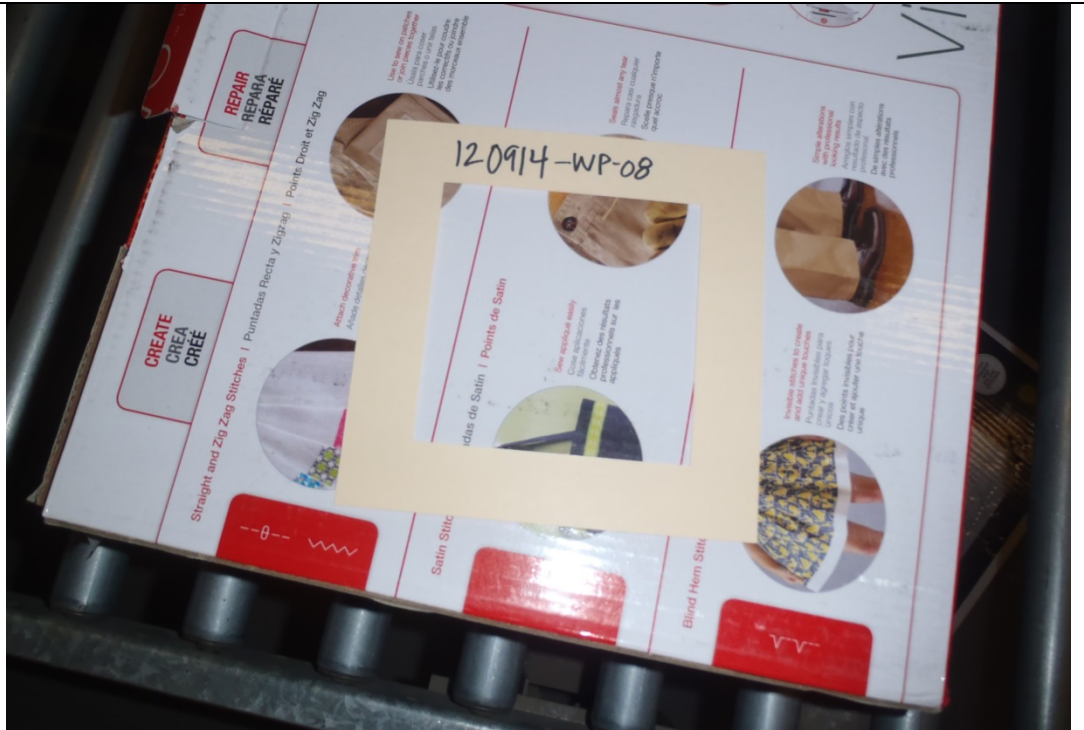
<p>Sample 120914-WP-07</p> <p>Aroclor 1260: <0.10 µg/wipe</p> <p>Location: Upper Module 4 – box located on the rolling conveyor system</p> <p>Corrugated box</p>	 A photograph of a white corrugated box on a rolling conveyor system. The box features a large black and white 'M/J HOLLER' logo. A yellow label on top of the box contains the sample ID '12 0914-WP-07'. The box is situated in a warehouse environment with other boxes and shelving visible in the background.
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Sample
120914-
WP-08

Aroclor
1260:
<0.10
µg/wipe

Location:
Upper
Module 3 –
box located
on the
rolling
conveyor
system

Sewing
machine



Sample
120914-
WP-09

Aroclor
1260:
<0.10
µg/wipe

Location:
Upper
Module 2 –
box located
on the
rolling
conveyor
system

Saltwater
pool filter
system



Sample
120914-WP-10

Aroclor 1260:
<0.10 µg/wipe

Location: Upper
Module 1 – box
located on the
rolling conveyor
system

Corrugated box



Appendix B
LABORATORY ANALYTICAL REPORT



11-Dec-2014

Bob DeMott
ENVIRON International Corp.
10150 Highland Manor Dr.
Suite 440
Tampa, FL 33610

Re: **Indianapolis Wipes**

Work Order: **1412489**

Dear Bob,

ALS Environmental received 11 samples on 10-Dec-2014 09:30 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Sample results are compliant with NELAP standard requirements and QC results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 19.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Chad Whelton

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager



Certificate No: MN 532786

Report of Laboratory Analysis

ADDRESS 3352 128th Avenue Holland, Michigan 49424-9263 | PHONE (616) 399-6070 | FAX (616) 399-6185

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: ENVIRON International Corp.
Project: Indianapolis Wipes
Work Order: 1412489

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1412489-01	120914-WP-01	Wipe		12/9/2014 16:20	12/10/2014 09:30	<input type="checkbox"/>
1412489-02	120914-WP-02	Wipe		12/9/2014 16:30	12/10/2014 09:30	<input type="checkbox"/>
1412489-03	120914-WP-03	Wipe		12/9/2014 16:35	12/10/2014 09:30	<input type="checkbox"/>
1412489-04	120914-WP-04	Wipe		12/9/2014 16:36	12/10/2014 09:30	<input type="checkbox"/>
1412489-05	120914-WP-05	Wipe		12/9/2014 16:40	12/10/2014 09:30	<input type="checkbox"/>
1412489-06	120914-WP-06	Wipe		12/9/2014 16:45	12/10/2014 09:30	<input type="checkbox"/>
1412489-07	120914-WP-07	Wipe		12/9/2014 16:50	12/10/2014 09:30	<input type="checkbox"/>
1412489-08	120914-WP-08	Wipe		12/9/2014 16:55	12/10/2014 09:30	<input type="checkbox"/>
1412489-09	120914-WP-09	Wipe		12/9/2014 17:00	12/10/2014 09:30	<input type="checkbox"/>
1412489-10	120914-WP-10	Wipe		12/9/2014 17:05	12/10/2014 09:30	<input type="checkbox"/>
1412489-11	120914-WP-11	Wipe		12/9/2014 17:10	12/10/2014 09:30	<input type="checkbox"/>

Client: ENVIRON International Corp.
Project: Indianapolis Wipes
WorkOrder: 1412489

QUALIFIERS, ACRONYMS, UNITS

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
µg/wipe	Micrograms per Wipe

ALS Group USA, Corp

Date: 11-Dec-14

Client: ENVIRON International Corp.

Project: Indianapolis Wipes

Work Order: 1412489

Sample ID: 120914-WP-01

Lab ID: 1412489-01

Collection Date: 12/9/2014 04:20 PM

Matrix: WIPE

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>						
PCBS			SW8082		Prep: EPA/600/R-07 / 12/10/14	Analyst: BLM
Aroclor 1016	U		0.10	µg/wipe	1	12/10/2014 06:53 PM
Aroclor 1221	U		0.10	µg/wipe	1	12/10/2014 06:53 PM
Aroclor 1232	U		0.10	µg/wipe	1	12/10/2014 06:53 PM
Aroclor 1242	U		0.10	µg/wipe	1	12/10/2014 06:53 PM
Aroclor 1248	U		0.10	µg/wipe	1	12/10/2014 06:53 PM
Aroclor 1254	U		0.10	µg/wipe	1	12/10/2014 06:53 PM
Aroclor 1260	0.83		0.10	µg/wipe	1	12/10/2014 06:53 PM
Aroclor 1262	U		0.10	µg/wipe	1	12/10/2014 06:53 PM
Aroclor 1268	U		0.10	µg/wipe	1	12/10/2014 06:53 PM
PCBs, Total	0.83		0.10	µg/wipe	1	12/10/2014 06:53 PM
Surr: Decachlorobiphenyl	99.6		40-140	%REC	1	12/10/2014 06:53 PM
Surr: Tetrachloro-m-xylene	95.2		40-140	%REC	1	12/10/2014 06:53 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 11-Dec-14

Client: ENVIRON International Corp.

Project: Indianapolis Wipes

Work Order: 1412489

Sample ID: 120914-WP-02

Lab ID: 1412489-02

Collection Date: 12/9/2014 04:30 PM

Matrix: WIPE

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep: EPA/600/R-07 / 12/10/14	Analyst: BLM
Aroclor 1016	U		0.10	µg/wipe	1	12/10/2014 07:14 PM
Aroclor 1221	U		0.10	µg/wipe	1	12/10/2014 07:14 PM
Aroclor 1232	U		0.10	µg/wipe	1	12/10/2014 07:14 PM
Aroclor 1242	U		0.10	µg/wipe	1	12/10/2014 07:14 PM
Aroclor 1248	U		0.10	µg/wipe	1	12/10/2014 07:14 PM
Aroclor 1254	U		0.10	µg/wipe	1	12/10/2014 07:14 PM
Aroclor 1260	U		0.10	µg/wipe	1	12/10/2014 07:14 PM
Aroclor 1262	U		0.10	µg/wipe	1	12/10/2014 07:14 PM
Aroclor 1268	U		0.10	µg/wipe	1	12/10/2014 07:14 PM
PCBs, Total	U		0.10	µg/wipe	1	12/10/2014 07:14 PM
Surr: Decachlorobiphenyl	90.4		40-140	%REC	1	12/10/2014 07:14 PM
Surr: Tetrachloro-m-xylene	88.8		40-140	%REC	1	12/10/2014 07:14 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 11-Dec-14

Client: ENVIRON International Corp.

Project: Indianapolis Wipes

Work Order: 1412489

Sample ID: 120914-WP-03

Lab ID: 1412489-03

Collection Date: 12/9/2014 04:35 PM

Matrix: WIPE

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep: EPA/600/R-07 / 12/10/14	Analyst: BLM
Aroclor 1016	U		0.10	µg/wipe	1	12/10/2014 07:35 PM
Aroclor 1221	U		0.10	µg/wipe	1	12/10/2014 07:35 PM
Aroclor 1232	U		0.10	µg/wipe	1	12/10/2014 07:35 PM
Aroclor 1242	U		0.10	µg/wipe	1	12/10/2014 07:35 PM
Aroclor 1248	U		0.10	µg/wipe	1	12/10/2014 07:35 PM
Aroclor 1254	U		0.10	µg/wipe	1	12/10/2014 07:35 PM
Aroclor 1260	U		0.10	µg/wipe	1	12/10/2014 07:35 PM
Aroclor 1262	U		0.10	µg/wipe	1	12/10/2014 07:35 PM
Aroclor 1268	U		0.10	µg/wipe	1	12/10/2014 07:35 PM
PCBs, Total	U		0.10	µg/wipe	1	12/10/2014 07:35 PM
Surr: Decachlorobiphenyl	101		40-140	%REC	1	12/10/2014 07:35 PM
Surr: Tetrachloro-m-xylene	98.1		40-140	%REC	1	12/10/2014 07:35 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 11-Dec-14

Client: ENVIRON International Corp.

Project: Indianapolis Wipes

Work Order: 1412489

Sample ID: 120914-WP-04

Lab ID: 1412489-04

Collection Date: 12/9/2014 04:36 PM

Matrix: WIPE

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep: EPA/600/R-07 / 12/10/14	Analyst: BLM
Aroclor 1016	U		0.10	µg/wipe	1	12/10/2014 07:56 PM
Aroclor 1221	U		0.10	µg/wipe	1	12/10/2014 07:56 PM
Aroclor 1232	U		0.10	µg/wipe	1	12/10/2014 07:56 PM
Aroclor 1242	U		0.10	µg/wipe	1	12/10/2014 07:56 PM
Aroclor 1248	U		0.10	µg/wipe	1	12/10/2014 07:56 PM
Aroclor 1254	U		0.10	µg/wipe	1	12/10/2014 07:56 PM
Aroclor 1260	U		0.10	µg/wipe	1	12/10/2014 07:56 PM
Aroclor 1262	U		0.10	µg/wipe	1	12/10/2014 07:56 PM
Aroclor 1268	U		0.10	µg/wipe	1	12/10/2014 07:56 PM
PCBs, Total	U		0.10	µg/wipe	1	12/10/2014 07:56 PM
Surr: Decachlorobiphenyl	87.5		40-140	%REC	1	12/10/2014 07:56 PM
Surr: Tetrachloro-m-xylene	88.4		40-140	%REC	1	12/10/2014 07:56 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp**Date:** 11-Dec-14**Client:** ENVIRON International Corp.**Project:** Indianapolis Wipes**Work Order:** 1412489**Sample ID:** 120914-WP-05**Lab ID:** 1412489-05**Collection Date:** 12/9/2014 04:40 PM**Matrix:** WIPE

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>						
PCBS			SW8082		Prep: EPA/600/R-07 / 12/10/14	Analyst: BLM
Aroclor 1016	U		0.10	µg/wipe	1	12/10/2014 08:17 PM
Aroclor 1221	U		0.10	µg/wipe	1	12/10/2014 08:17 PM
Aroclor 1232	U		0.10	µg/wipe	1	12/10/2014 08:17 PM
Aroclor 1242	U		0.10	µg/wipe	1	12/10/2014 08:17 PM
Aroclor 1248	U		0.10	µg/wipe	1	12/10/2014 08:17 PM
Aroclor 1254	U		0.10	µg/wipe	1	12/10/2014 08:17 PM
Aroclor 1260	U		0.10	µg/wipe	1	12/10/2014 08:17 PM
Aroclor 1262	U		0.10	µg/wipe	1	12/10/2014 08:17 PM
Aroclor 1268	U		0.10	µg/wipe	1	12/10/2014 08:17 PM
PCBs, Total	U		0.10	µg/wipe	1	12/10/2014 08:17 PM
Surr: Decachlorobiphenyl	88.5		40-140	%REC	1	12/10/2014 08:17 PM
Surr: Tetrachloro-m-xylene	89.2		40-140	%REC	1	12/10/2014 08:17 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp**Date:** 11-Dec-14**Client:** ENVIRON International Corp.**Project:** Indianapolis Wipes**Work Order:** 1412489**Sample ID:** 120914-WP-06**Lab ID:** 1412489-06**Collection Date:** 12/9/2014 04:45 PM**Matrix:** WIPE

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>						
PCBS			SW8082		Prep: EPA/600/R-07 / 12/10/14	Analyst: BLM
Aroclor 1016	U		0.10	µg/wipe	1	12/10/2014 09:00 PM
Aroclor 1221	U		0.10	µg/wipe	1	12/10/2014 09:00 PM
Aroclor 1232	U		0.10	µg/wipe	1	12/10/2014 09:00 PM
Aroclor 1242	U		0.10	µg/wipe	1	12/10/2014 09:00 PM
Aroclor 1248	U		0.10	µg/wipe	1	12/10/2014 09:00 PM
Aroclor 1254	U		0.10	µg/wipe	1	12/10/2014 09:00 PM
Aroclor 1260	U		0.10	µg/wipe	1	12/10/2014 09:00 PM
Aroclor 1262	U		0.10	µg/wipe	1	12/10/2014 09:00 PM
Aroclor 1268	U		0.10	µg/wipe	1	12/10/2014 09:00 PM
PCBs, Total	U		0.10	µg/wipe	1	12/10/2014 09:00 PM
Surr: Decachlorobiphenyl	91.4		40-140	%REC	1	12/10/2014 09:00 PM
Surr: Tetrachloro-m-xylene	92.4		40-140	%REC	1	12/10/2014 09:00 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp**Date:** 11-Dec-14**Client:** ENVIRON International Corp.**Project:** Indianapolis Wipes**Work Order:** 1412489**Sample ID:** 120914-WP-07**Lab ID:** 1412489-07**Collection Date:** 12/9/2014 04:50 PM**Matrix:** WIPE

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>						
PCBS			SW8082		Prep: EPA/600/R-07 / 12/10/14	Analyst: BLM
Aroclor 1016	U		0.10	µg/wipe	1	12/10/2014 09:21 PM
Aroclor 1221	U		0.10	µg/wipe	1	12/10/2014 09:21 PM
Aroclor 1232	U		0.10	µg/wipe	1	12/10/2014 09:21 PM
Aroclor 1242	U		0.10	µg/wipe	1	12/10/2014 09:21 PM
Aroclor 1248	U		0.10	µg/wipe	1	12/10/2014 09:21 PM
Aroclor 1254	U		0.10	µg/wipe	1	12/10/2014 09:21 PM
Aroclor 1260	U		0.10	µg/wipe	1	12/10/2014 09:21 PM
Aroclor 1262	U		0.10	µg/wipe	1	12/10/2014 09:21 PM
Aroclor 1268	U		0.10	µg/wipe	1	12/10/2014 09:21 PM
PCBs, Total	U		0.10	µg/wipe	1	12/10/2014 09:21 PM
Surr: Decachlorobiphenyl	92.5		40-140	%REC	1	12/10/2014 09:21 PM
Surr: Tetrachloro-m-xylene	90.3		40-140	%REC	1	12/10/2014 09:21 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 11-Dec-14

Client: ENVIRON International Corp.

Project: Indianapolis Wipes

Work Order: 1412489

Sample ID: 120914-WP-08

Lab ID: 1412489-08

Collection Date: 12/9/2014 04:55 PM

Matrix: WIPE

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep: EPA/600/R-07 / 12/10/14	Analyst: BLM
Aroclor 1016	U		0.10	µg/wipe	1	12/10/2014 09:42 PM
Aroclor 1221	U		0.10	µg/wipe	1	12/10/2014 09:42 PM
Aroclor 1232	U		0.10	µg/wipe	1	12/10/2014 09:42 PM
Aroclor 1242	U		0.10	µg/wipe	1	12/10/2014 09:42 PM
Aroclor 1248	U		0.10	µg/wipe	1	12/10/2014 09:42 PM
Aroclor 1254	U		0.10	µg/wipe	1	12/10/2014 09:42 PM
Aroclor 1260	U		0.10	µg/wipe	1	12/10/2014 09:42 PM
Aroclor 1262	U		0.10	µg/wipe	1	12/10/2014 09:42 PM
Aroclor 1268	U		0.10	µg/wipe	1	12/10/2014 09:42 PM
PCBs, Total	U		0.10	µg/wipe	1	12/10/2014 09:42 PM
Surr: Decachlorobiphenyl	90.6		40-140	%REC	1	12/10/2014 09:42 PM
Surr: Tetrachloro-m-xylene	90.7		40-140	%REC	1	12/10/2014 09:42 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 11-Dec-14

Client: ENVIRON International Corp.

Project: Indianapolis Wipes

Work Order: 1412489

Sample ID: 120914-WP-09

Lab ID: 1412489-09

Collection Date: 12/9/2014 05:00 PM

Matrix: WIPE

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep: EPA/600/R-07 / 12/10/14	Analyst: BLM
Aroclor 1016	U		0.10	µg/wipe	1	12/10/2014 10:03 PM
Aroclor 1221	U		0.10	µg/wipe	1	12/10/2014 10:03 PM
Aroclor 1232	U		0.10	µg/wipe	1	12/10/2014 10:03 PM
Aroclor 1242	U		0.10	µg/wipe	1	12/10/2014 10:03 PM
Aroclor 1248	U		0.10	µg/wipe	1	12/10/2014 10:03 PM
Aroclor 1254	U		0.10	µg/wipe	1	12/10/2014 10:03 PM
Aroclor 1260	U		0.10	µg/wipe	1	12/10/2014 10:03 PM
Aroclor 1262	U		0.10	µg/wipe	1	12/10/2014 10:03 PM
Aroclor 1268	U		0.10	µg/wipe	1	12/10/2014 10:03 PM
PCBs, Total	U		0.10	µg/wipe	1	12/10/2014 10:03 PM
Surr: Decachlorobiphenyl	89.8		40-140	%REC	1	12/10/2014 10:03 PM
Surr: Tetrachloro-m-xylene	87.7		40-140	%REC	1	12/10/2014 10:03 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp**Date:** 11-Dec-14**Client:** ENVIRON International Corp.**Project:** Indianapolis Wipes**Work Order:** 1412489**Sample ID:** 120914-WP-10**Lab ID:** 1412489-10**Collection Date:** 12/9/2014 05:05 PM**Matrix:** WIPE

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep: EPA/600/R-07 / 12/10/14	Analyst: BLM
Aroclor 1016	U		0.10	µg/wipe	1	12/10/2014 10:24 PM
Aroclor 1221	U		0.10	µg/wipe	1	12/10/2014 10:24 PM
Aroclor 1232	U		0.10	µg/wipe	1	12/10/2014 10:24 PM
Aroclor 1242	U		0.10	µg/wipe	1	12/10/2014 10:24 PM
Aroclor 1248	U		0.10	µg/wipe	1	12/10/2014 10:24 PM
Aroclor 1254	U		0.10	µg/wipe	1	12/10/2014 10:24 PM
Aroclor 1260	U		0.10	µg/wipe	1	12/10/2014 10:24 PM
Aroclor 1262	U		0.10	µg/wipe	1	12/10/2014 10:24 PM
Aroclor 1268	U		0.10	µg/wipe	1	12/10/2014 10:24 PM
PCBs, Total	U		0.10	µg/wipe	1	12/10/2014 10:24 PM
Surr: Decachlorobiphenyl	85.5		40-140	%REC	1	12/10/2014 10:24 PM
Surr: Tetrachloro-m-xylene	83.6		40-140	%REC	1	12/10/2014 10:24 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp**Date:** 11-Dec-14**Client:** ENVIRON International Corp.**Project:** Indianapolis Wipes**Work Order:** 1412489**Sample ID:** 120914-WP-11**Lab ID:** 1412489-11**Collection Date:** 12/9/2014 05:10 PM**Matrix:** WIPE

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>						
PCBS			SW8082		Prep: EPA/600/R-07 / 12/10/14	Analyst: BLM
Aroclor 1016	U		0.10	µg/wipe	1	12/10/2014 10:46 PM
Aroclor 1221	U		0.10	µg/wipe	1	12/10/2014 10:46 PM
Aroclor 1232	U		0.10	µg/wipe	1	12/10/2014 10:46 PM
Aroclor 1242	U		0.10	µg/wipe	1	12/10/2014 10:46 PM
Aroclor 1248	U		0.10	µg/wipe	1	12/10/2014 10:46 PM
Aroclor 1254	U		0.10	µg/wipe	1	12/10/2014 10:46 PM
Aroclor 1260	U		0.10	µg/wipe	1	12/10/2014 10:46 PM
Aroclor 1262	U		0.10	µg/wipe	1	12/10/2014 10:46 PM
Aroclor 1268	U		0.10	µg/wipe	1	12/10/2014 10:46 PM
PCBs, Total	U		0.10	µg/wipe	1	12/10/2014 10:46 PM
Surr: Decachlorobiphenyl	83.2		40-140	%REC	1	12/10/2014 10:46 PM
Surr: Tetrachloro-m-xylene	83.2		40-140	%REC	1	12/10/2014 10:46 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 11-Dec-14

Client: ENVIRON International Corp.
Work Order: 1412489
Project: Indianapolis Wipes

QC BATCH REPORT

Batch ID: **65833** Instrument ID **GC14** Method: **SW8082**

MBLK		Sample ID: MBLK-65833-65833				Units: µg/wipe		Analysis Date: 12/10/2014 06:10 PM		
Client ID:		Run ID: GC14_141210A				SeqNo: 3070790		Prep Date: 12/10/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	U	0.10								
Aroclor 1221	U	0.10								
Aroclor 1232	U	0.10								
Aroclor 1242	U	0.10								
Aroclor 1248	U	0.10								
Aroclor 1254	U	0.10								
Aroclor 1260	U	0.10								
Aroclor 1262	U	0.10								
Aroclor 1268	U	0.10								
PCBs, Total	U	0.10								
<i>Surr: Decachlorobiphenyl</i>	<i>0.5089</i>	<i>0</i>	<i>0.5</i>	<i>0</i>	<i>102</i>	<i>50-130</i>	<i>0</i>			
<i>Surr: Tetrachloro-m-xylene</i>	<i>0.488</i>	<i>0</i>	<i>0.5</i>	<i>0</i>	<i>97.6</i>	<i>50-130</i>	<i>0</i>			

LCS		Sample ID: LCS-65833-65833				Units: µg/wipe		Analysis Date: 12/10/2014 06:31 PM		
Client ID:		Run ID: GC14_141210A				SeqNo: 3070792		Prep Date: 12/10/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	4.804	0.10	5	0	96.1	50-130	0			
Aroclor 1260	4.84	0.10	5	0	96.8	50-130	0			
<i>Surr: Decachlorobiphenyl</i>	<i>0.4959</i>	<i>0</i>	<i>0.5</i>	<i>0</i>	<i>99.2</i>	<i>50-130</i>	<i>0</i>			
<i>Surr: Tetrachloro-m-xylene</i>	<i>0.4943</i>	<i>0</i>	<i>0.5</i>	<i>0</i>	<i>98.9</i>	<i>50-130</i>	<i>0</i>			

The following samples were analyzed in this batch:

1412489-01A	1412489-02A	1412489-03A
1412489-04A	1412489-05A	1412489-06A
1412489-07A	1412489-08A	1412489-09A
1412489-10A	1412489-11A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



Environmental

Cincinnati, OH
+1 513 733 5336

Everett, WA
+1 425 356 2600

Fort Collins, CO
+1 970 490 1511

Holland, MI
+1 616 399 6070

Chain of Custody Form

Page 1 of 2

COC ID: 113511

Houston, TX
+1 281 530 5656

Middletown, PA
+1 717 944 5541

Spring City, PA
+1 610 948 4903

Salt Lake City, UT
+1 801 266 7700

South Charleston, WV
+1 304 356 3168

York, PA
+1 717 505 5280

ALS Project Manager:

ALS Work Order #: 412489

Customer Information

Purchase Order	
Work Order	
Company Name	ENVIRON International Corp.
Send Report To	Marjory Sure
Address	10150 Highland Manor Dr. Suite 440
City/State/Zip	Tampa, FL 33610
Phone	(813) 628-4325
Fax	
e-Mail Address	

Project Information

Project Name	
Project Number	
Bill To Company	ENVIRON International Corp.
Invoice Attn	
Address	10150 Highland Manor Dr. Suite 440
City/State/Zip	Tampa, FL 33610
Phone	(813) 628-4325
Fax	
e-Mail Address	

Parameter/Method Request for Analysis

A	PCBs
B	
C	
D	
E	
F	
G	
H	
I	
J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	120914-WP-01	12/9/14	1620	Wipr	Hexano	1	X										
2	120914-WP-02		1630				X										
3	120914-WP-03		1635				X										
4	120914-WP-04		1636				X										
5	120914-WP-05		1640				X										
6	120914-WP-06		1645				X										
7	120914-WP-07		1650				X										
8	120914-WP-08		1655				X										
9	120914-WP-09		1700				X										
10	120914-WP-10		1705				X										

Sampler(s) Please Print & Sign <u>Marjory Sure</u>		Shipment Method <u>Fed Ex</u>		Required Turnaround Time: (Check Box) <input type="checkbox"/> 10 Wk Days <input type="checkbox"/> 5 Wk Days <input type="checkbox"/> 2 Wk Days <input checked="" type="checkbox"/> 24 Hour		Results Due Date:	
Relinquished by: <u>Marjory Sure</u>	Date: <u>12/9/14</u>	Time: <u>1830</u>	Received by: <u>FED EX</u>	Notes:			
Relinquished by: <u>FED EX</u>	Date: <u>12/10/14</u>	Time: <u>0930</u>	Received by (Laboratory): <u>DES</u>	Cooler ID:	Cooler Temp:	QC Package: (Check One Box Below)	
Logged by (Laboratory): <u>DES</u>	Date: <u>12/10/14</u>	Time: <u>1000</u>	Checked by (Laboratory): <u>CO</u>		<u>4.0°C</u>	<input type="checkbox"/> Level II Std QC <input type="checkbox"/> TRRP Check List <input type="checkbox"/> Level III Std QC/Raw Data <input type="checkbox"/> TRRP Level IV <input checked="" type="checkbox"/> Level IV SW846/CLP <input type="checkbox"/> Other	
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035							

- Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.

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Environmental

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Everett, WA
+1 425 356 2600

Fort Collins, CO
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Holland, MI
+1 616 399 6070

Chain of Custody Form

Page of

COC ID: **113509**

Houston, TX
+1 281 530 5656

Middletown, PA
+1 717 944 5541

Spring City, PA
+1 610 948 4903

Salt Lake City, UT
+1 801 266 7700

South Charleston, WV
+1 304 356 3168

York, PA
+1 717 505 5280

ALS Project Manager:

ALS Work Order #: **1912489**

Customer Information		Project Information		Parameter/Method Request for Analysis												
Purchase Order		Project Name		A	PCBs											
Work Order		Project Number		B												
Company Name	ENVIRON International Corp.	Bill To Company	ENVIRON International Corp.	C												
Send Report To	Marjory Surr <i>Fure</i>	Invoice Attn		D												
Address	10150 Highland Manor Dr. Suite 440	Address	10150 Highland Manor Dr. Suite 440	E												
City/State/Zip	Tampa, FL 33610	City/State/Zip	Tampa, FL 33610	F												
Phone	(813) 628-4325	Phone	(813) 628-4325	G												
Fax		Fax		H												
e-Mail Address		e-Mail Address		I												
				J												

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	120914-WP-11	12/9/14	1710	W	Humid	1	X										
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign <i>Marjory Fure</i>		Shipment Method <i>Fed Ex</i>		Required Turnaround Time: (Check Box) <input type="checkbox"/> Std 10 WK Days <input type="checkbox"/> 6 WK Days <input type="checkbox"/> 3 WK Days <input checked="" type="checkbox"/> 24 Hour				Results Due Date: <u> </u>		
Relinquished by: <i>[Signature]</i>	Date: <i>12/9/14</i>	Time: <i>1830</i>	Received by: <i>FED EX</i>		Notes: <u> </u>					
Relinquished by: <i>FED EX</i>	Date: <i>12/10/14</i>	Time: <i>0930</i>	Received by (Laboratory): <i>[Signature]</i>		Cooler ID:	Cooler Temp:	QC Package: (Check One Box Below)			
Logged by (Laboratory): <i>DES</i>	Date: <i>12/10/14</i>	Time: <i>1000</i>	Checked by (Laboratory): <i>[Signature]</i>			<i>4.0°C</i>	<input type="checkbox"/> Level II Std QC <input type="checkbox"/> TRRP Check List <input type="checkbox"/> Level III Std QC/Row Data <input type="checkbox"/> TRRP Level IV <input type="checkbox"/> Level IV SW846/CLP <input type="checkbox"/> Other: <u> </u>			
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-1°C 9-5035										

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.

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Seal Broken By:	DATE: 12/19/94	TIME: 1:30	Signature: [Signature]
CUSTODY SEAL			

ALS Environmental
3352 128th Avenue
Holland, Michigan 49424
Tel: +1 616 399 6070
Fax: +1 616 399 6165



Recipient

Packages up!
For packages over 150 lbs.
FedEx Express Freight

2 or 3 Business Days

☒ **FedEx 2Day A.M.**

Second business morning. Saturday Delivery NOT available.

☐ **FedEx 2Day**

Second business afternoon. Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

☐ **FedEx Express Saver**

Saturday Delivery NOT available.

☒ **FedEx Priority Overnight**

Next business morning. FedEx shipments will be delivered on Monday unless SATURDAY Delivery is selected.

☐ **FedEx Standard Overnight**

Next business afternoon. Saturday Delivery NOT available.

5 Packaging

* Declared value limit \$500.

☐ **FedEx Envelope***

☐ **FedEx Pak***

☐ **FedEx Box**

☐ **FedEx Tube**

☒ **Other**

6 Special Handling and Delivery Signature Options

☒ **No Signature Required**

Package may be left without receiving a signature for delivery.

☐ **Direct Signature**

Someone at recipient's address may sign for delivery. Fee applies.

☐ **Indirect Signature**

If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.

Does this shipment contain dangerous goods?

See box must be checked.

☒ **No**

☐ **Yes**

Yes: per attached Shipper's Declaration and required.

☐ **Dry Ice**

☐ **Cargo Aircraft Only**

7 Payment

Enter FedEx Acct. No. or Credit Card No. below.

Obtain receipt.

Acct. No.

☒ **Sender**

☐ **Recipient**

☐ **Third Party**

☐ **Credit Card**

☐ **Cash/Check**

Total Packages

Total Weight

Credit Card Auth.

2 Your Internal Billing Reference

3 To

Recipient's Name

Company

Address

Address

City

State

Phone

State

ZIP



8065 1150 7875

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Sample Receipt Checklist

Client Name: **ENVIRONINT - FL**

Date/Time Received: **10-Dec-14 09:30**

Work Order: **1412489**

Received by: **DS**

Checklist completed by Diane Shaw
eSignature

10-Dec-14
Date

Reviewed by: Chad Whelton
eSignature

10-Dec-14
Date

Matrices: **Wipe**

Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>4.0 c</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>12/10/2014 10:06:21 AM</u>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:			

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction: